



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No.: 10/632,997 Confirmation No.: 8974  
Applicants: Wang *et al.*  
Filed: August 1, 2003  
TC/A.AU.: 1645  
Examiner: Unassigned  
Docket No.: 08841.105020 PHA 1070 US  
Customer No.: 20786  
Title: Compounds with The Bicyclo [4.2.1] Nonane System for the Treatment of  
Flaviviridae Infections

Commissioner for Patents  
P. O. Box 1450  
Alexandria, VA 22313-1450

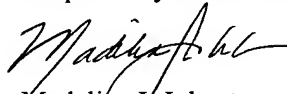
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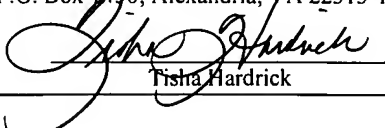
Respectfully submitted,

  
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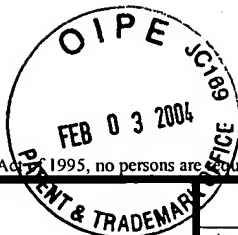
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Sheet 1 of 3

## **Complete if Known**

Application Number	10/632,997
Filing Date	August 1, 2003
First Named Inventor	Peiyuan Wang <i>et al.</i>
Group Art Unit	1645
Examiner Name	Unassigned
Attorney Docket Number	08841.105020 PHA 1070 US

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## **U.S. PATENT DOCUMENTS**

Examiner Initials *	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages/Relevant Figures Appear	T <sup>6</sup>
		Number	Kind Code (if known)				
	AA	5,026,687		Yarchoan <i>et al.</i>	06-25-1991		
	AB	5,491,135		Blough	02-13-1996		
	AC	5,496,546		Wang <i>et al.</i>	03-05-1996		
	AD	5,633,388		Diana <i>et al.</i>	05-27-1997		
	AE	5,725,859		Omer	03-10-1998		
	AF	5,830,905		Diana <i>et al.</i>	11-03-1998		
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	AH	5,846,964		Ozeki	12-08-1998		
	AI	5,849,800		Smith	12-15-1998		
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	AK	5,891,874		Colacino <i>et al.</i>	04-06-1999		
	AL	5,922,757		Chojkier	07-13-1999		
	AM	6,030,960		Morris-Natschke <i>et al.</i>	02-29-2000		
	AN	6,034,134		Gold <i>et al.</i>	03-07-2000		
	AO	6,056,961		Lavie <i>et al.</i>	05-02-2000		
	AP	6,573,248	B2	Ramasamy <i>et al.</i>	06-03-2003		
	AQ	2002/0055483	A1	Watanabe <i>et al.</i>	05-09-2002		
	AR	2002/0147160	A1	Bhat <i>et al.</i>	10-10-2002		
	AS	2003/0008841	A1	Devos <i>et al.</i>	01-09-2003		
	AT	2003/0028013	A1	Wang <i>et al.</i>	02-06-2003		
	AU	2003/0050229	A1	Sommadosi <i>et al.</i>	03-13-2003		
	AV	2003/0060400	A1	LaColla <i>et al.</i>	03-27-2003		
	AW	2003/0083307	A1	Devos <i>et al.</i>	05-01-2003		
	AX	2003/0087873	A1	Stuyver <i>et al.</i>	05-08-2003		

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Signature

Date  
Considered

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Sheet **2** of **3**

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First Named Inventor	Peiyuan Wang <i>et al.</i>
Group Art Unit	1645
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		Office <sup>3</sup>	Number	Kind Code <sup>2</sup> (if known)				
	BA	FR	2,662,165 <sup>1</sup>	A1 ✓	Univ Pierre et Marie Curie	11-22-1991		
	BB	WO	98/16184	A2 ✓	ICN Pharmaceuticals	04-23-1998		
	BC	WO	99/43691	A1 ✓	Emory University	09-02-1999		
	BD	WO	01/32153	A2 ✓	BioChem Pharma Inc.	05-10-2001		
	BE	WO	01/60315	A2 ✓	BioChem Pharma Inc.	08-23-2001		
	BF	WO	01/68663	A1 ✓	ICN Pharmaceuticals Inc.	09-20-2001		
	BG	WO	01/79246	A2 ✓	Pharmasset, Ltd.	10-25-2001		
	BH	WO	01/90121	A2 ✓	Novirio (Idenix Pharmaceuticals)	11-29-2001		
	BI	WO	01/92282	A2 ✓	Novirio Pharm.; Univ...Cagliari	06-12-2001		
	BJ	WO	02/003997	A1 ✓	ICN Pharmaceuticals Inc.	01-17-2002		
	BK	WO	02/018404	A2 ✓	F. Hoffmann-La Roche AG	03-07-2002		
	BL	WO	02/032920	A2 ✓	Pharmasset Ltd.	04-25-2002		
	BM	WO	02/048165	A2 ✓	Pharmasset, Ltd.	06-20-2002		
	BN	WO	02/057287	A2 ✓	Merck; Isis Pharmaceuticals	07-25-2002		
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	BP	WO	02/070533	A3	Pharmasset, Ltd.	09-12-2002		
	BQ	WO	02/094289	A1	F. Hoffmann-La Roche AG	11-28-2002		
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	BT	WO	03/026675	A1	Novirio (Idenix Pharmaceuticals)	04-03-2003		
	BU	WO	03/051899	A1	Ribapharm Inc.	06-26-2003		
	BV	WO	03/061385	A1	Ribapharm Inc.	07-31-2003		
	BW	WO	03/061576	A2	Ribapharm Inc.	07-31-2003		
	BX	WO	03/062255	A2	Ribapharm Inc.	07-31-2003		
	BY	WO	03/062256	A1	Ribapharm Inc.	07-31-2003		
	BZ	WO	03/062257	A1	Ribapharm Inc.	07-31-2003		

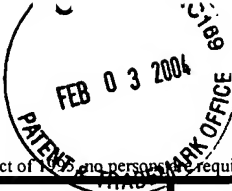
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		Office <sup>3</sup>	Number	Kind Code <sup>2</sup> (if known)				
	CA	WO	03/063771	A2	Pharmasset Ltd.	08-07-2003		
	CB	WO	03/068162	A2	Pharmasset Ltd.	08-21-2003		
	CC	WO	03/072757	A2	Biota Inc.	09-04-2003		
	CD	WO	03/093290	A2	Genelabs Technologies	11-13-2003		

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>6</sup>
	CE	ANDERSON, G. L., <i>et al.</i> , "Pyridopyrimidines. 7. Ribonucleosides structurally related to the antitumor antibiotic sangivamycin," <i>J. Org. Chem.</i> , 42(6):997-1000 (1977).	
	CF	CARROLL, Steven S. et al. "Inhibition of Hepatitis C Virus RNA Replication by 2'-Modified Nucleoside Analogs" <i>The Journal of Biological Chemistry</i> , 278(14):11979-11984 (2003).	
	CG	DYMOCK, B.W., <i>et al.</i> , "Novel approaches to the treatment of hepatitis C virus infection," <i>Antiviral Chemistry &amp; Chemotherapy</i> , 11(2):79-96 (2000).	
	CH	HARRY-O'KURU, Rogers E. et al. "2'-C-Alkylribonucleosides: Design, Synthesis, and Conformation" <i>Nucleosides &amp; Nucleotides</i> , 16(7-9):1457-1460 (1997).	
	CI	PFLEIDERER, W., <i>et al.</i> , "Allgemeine Synthese von Pteridin-N-8-glycosiden," <i>Chem. Ber.</i> , 106, 317-331 (1973).	
	CJ	RIZKALLA, B.H., <i>et al.</i> , "Pyrido[2,3-d]pyrimidines. III. Synthesis of some 8-(β-D-ribofuranosyl)pyrido[2,3-d]pyrimidines structurally related to the antibiotic sangivamycin," <i>J. Org. Chem.</i> , 37(25):3980-3985 (1972).	

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